

# The Nutmeg Network

*Improving Connectivity at Light Speed*

Connecticut Education Network (CEN)  
Connecticut Office of Policy and Management (OPM)  
Capitol Region Council of Governments (CRCOG)

# Presentation Overview

- Introductions
- Why we're here
- What is CEN?
- Process to Connect and Costs
- Process to Get Grants
- What can the Nutmeg Network do for my town?
- Where can I find out more information?

# Introductions

- **Jennifer March–Wackers**, CPPO, Municipal Services Manager for the Capitol Region Council of Governments (CRCOG)
- **James Mindek**, Director of Services and Member Relations for the Connecticut Education Network (CEN)
  - Project manager for processing Nutmeg Network connection requests
- **Wendy Rego**, Business Manager for CEN
  - Business analyst, customer relations, contracts & billing
- **Tyler Kleykamp**, Planning Specialist for CT Office of Policy and Management (OPM)

# Why we're here

- ▶ CEN Access previously restricted to education and libraries
- ▶ BTOP Expansion to Public Safety (completed August 2013)
- ▶ BEST Expansion of Nutmeg Network to General Government (PA 13-247)
  - Funding for build out and access
  - Two year roll-out plan for municipalities and Councils of Government (COGs)

# How Do I Connect to the Nutmeg Network and Pay for it?

- ▶ Two parallel processes
  - CEN Connection
    - Ongoing (no deadline)
    - Physical Connection to the Nutmeg Network
    - Cost estimates provided for connection
  - OPM Grants
    - Regional Performance Incentive Program and MRRA funds
    - Notice of Intent due by December 31, 2013 to be considered in the first round of funding

# Who is CEN?

- ▶ The Connecticut Education Network (CEN) is the public broadband fiber network in Connecticut
- ▶ Operated as a collaboration of DAS/BEST and University of Connecticut
- ▶ Responsible for carrying out PA 13–247 provisions and the plan outlined by Mark Raymond, State CIO
- ▶ Website: [www.ct.gov/cen](http://www.ct.gov/cen)

# What is “The Nutmeg Network”?

- ▶ The Nutmeg Network is an umbrella term utilized to describe the network footprint that consists of two existing networks supported by 3 agencies/organizations:
  - Networks:
    - PSDN – Public Safety Data Network
    - CEN – Connecticut Education Network
  - Agencies:
    - DESPP – Department of Emergency Services & Public Protection
    - CEN/ASC – Connecticut Education Network – Advanced Services Center
    - DAS/BEST – Department of Administrative Services / Bureau of Enterprise Systems & Technology

# Governance and Coordination

## Education and Non-Public Safety Related

The Commission for Educational Technology (CET) is the governing body for use of the Educational and Non-Public Safety related portions of the Nutmeg network.

- ▶ Members include stakeholders from various groups representing all interested parties

## Public Safety Related

The E911 Commission, in consultation with the DESPP Coordinating Advisory Board, is the governing body for use of the Public Safety related portions of the Nutmeg Network.

- Members include stakeholders from various groups representing all interested parties

The Nutmeg Network BTOP Technical Review Subcommittee



# Who is part of “The Nutmeg Network” ?

The Nutmeg Network connects approximately 968 Community Anchor Institutions (CAI), including approximately 510 public safety entities, 26 tower sites, 231 K–12 schools, 146 libraries, 44 Higher Education institutions and 6 Public Television stations (CPTV) to the network which includes connections to many areas of the state that are currently underserved.

There are currently 6 municipalities connected with another 70+ in the request queue to be connected.

# How do I request a Connection?

- How do I request a connection to connect to the Nutmeg Network?
  - [www.nutmegnetwork.uconn.edu/request/](http://www.nutmegnetwork.uconn.edu/request/)

# Process Flow for Nutmeg Network Connection Request

- ▶ Nutmeg Network connection request form submitted.
- ▶ Request accepted; organization contacted; connection process initiated.
- ▶ Determine member type & requestor category.
- ▶ Design & estimate of connection solution.
- ▶ Requestor confirms pricing & process.
- ▶ Network Access Service Agreement processed.
- ▶ Last mile fiber connection completed.
- ▶ Hardware configuration & testing completed.
- ▶ Customer connected & invoicing initiated.

# What are the costs to connect?

## Recurring Costs to the Nutmeg Network

Internet (10 Mb Minimum)	\$7.79/Mb/Mo.
Port Fee	\$113.35/Port/ Mo.

## Costs for Fiber Build to CEN or PSDN POP (Point of Presence)

Non-Recurring Construction Costs  
Recurring Maintenance Costs

# How Do We Pay for this?

- ▶ Costs for single connection and associated costs (first 2 years) and build out of network (long term):
  - Nutmeg Network Notice of Intent (for an individual town application)
  - RPIP – Regional Performance Incentive Program (for an application through your Regional COG)
- ▶ Costs for build out of network in your town:
  - Local Capital Improvement Program Funds (LoCIP)
  - Small Town Economic Assistance Program (STEAP)
  - Towns can ask to use the Town Aid Road fund

# The OPM Connection Grants

- ▶ Grant Materials online:  
[www.ct.gov/opm/cwp/view.asp?  
A=2985&Q=487924](http://www.ct.gov/opm/cwp/view.asp?A=2985&Q=487924) (includes new and revised information)
- ▶ Apply with the Nutmeg Network Notice of Intent (individual towns submit)
- ▶ Application to OPM Includes:
  - Notice of Intent due December 31, 2013
  - Cost estimate for connection from CEN by February 15, 2014
  - Town resolutions are due by March 31, 2013

# Demonstrating the Value of Broadband

- ▶ Show value in Strategic use of IT for local government
  - Improve service delivery
  - Increase efficiency of operations
- ▶ Improve approaches to current CRCOG service sharing programs
  - Municipal Cloud capabilities change the nature of software needs
  - Improve current uses and reduce cost
- ▶ New and expanded service sharing areas
  - Data redundancy and Co-location
  - Leverage purchasing power for common systems
  - Automation of communication and reporting

# Centralized Topology

Cost – predictable, better value

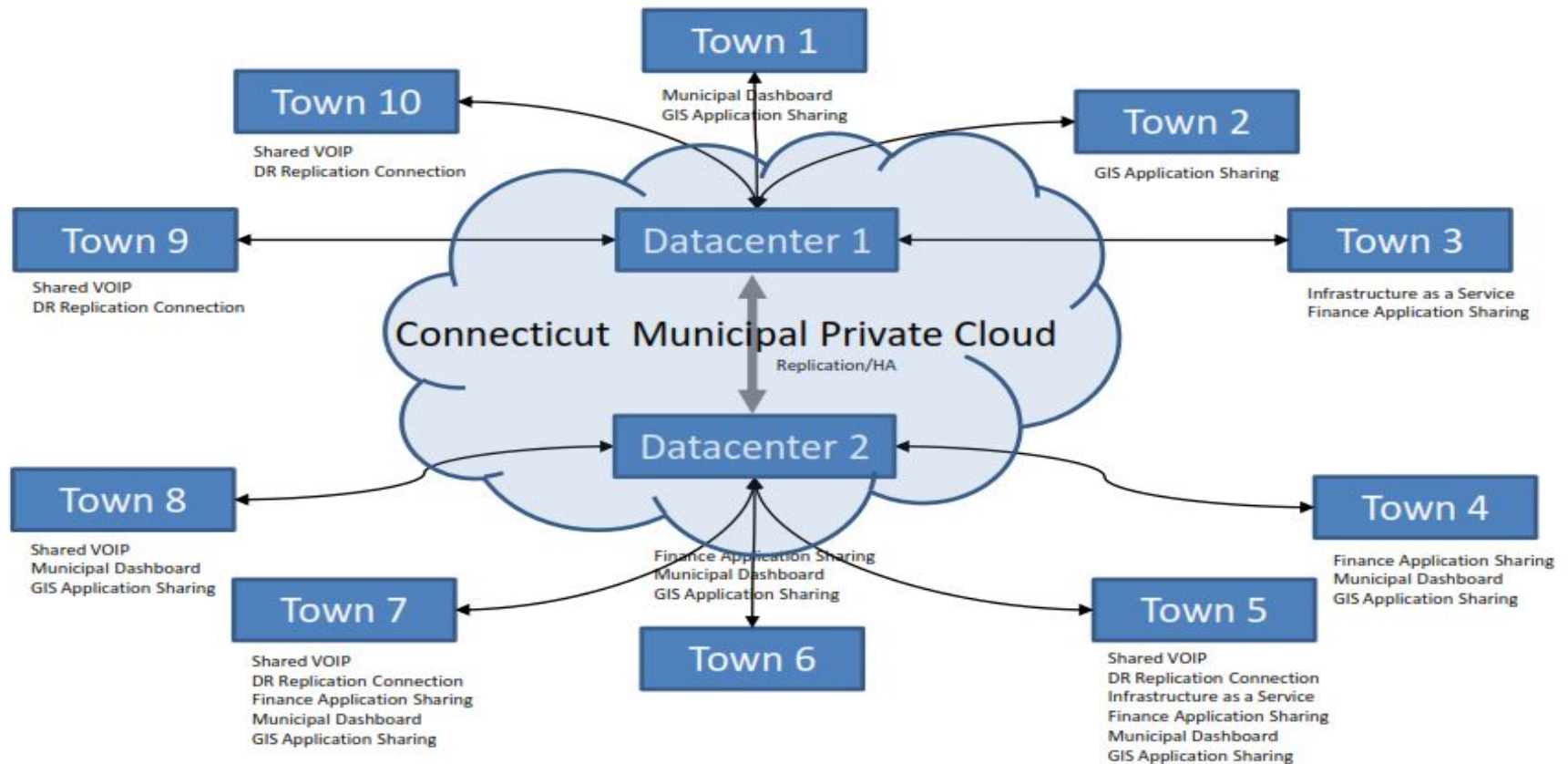
Internet Access – consistent high speed and quality, shared investment

Security – high network security, centrally managed

Scalability – easy to pilot, vet, improve, and roll out programs

Sharing / Collaboration – easy to share costs and benefits of hardware and software

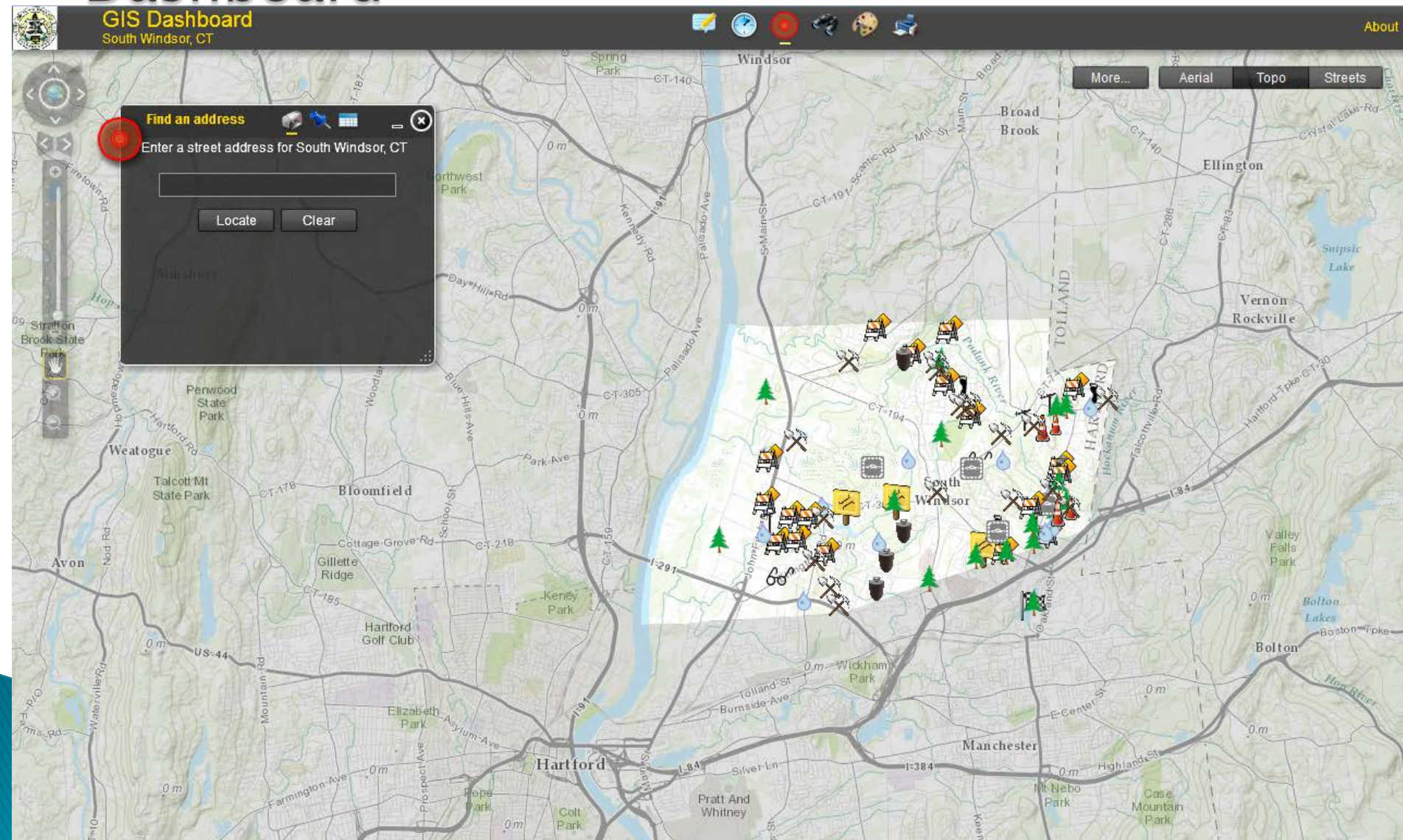
Innovation – unified platform and market, facilitates smart and open innovation



Source: Connecticut Center for Advanced Technology (CCAT)



# South Windsor Work Management Dashboard



# What can the Nutmeg Network Do for MY Town?

- ▶ Business Systems Improvement
  - Disaster Recover/Data Backup
  - Document Management
  - ERP and Finance Systems
  - Human Resources
- ▶ IT/Telephony Systems Improvement
  - VOIP
  - Streaming Video
  - Hosting Services
- ▶ Internal Workflow Systems
  - Property Data/ Assessment System
  - Facilities Management/ Asset Management
- ▶ Community Involvement/Outreach Tools
  - Customer Response Management (CRM)
  - Mobile Apps
  - Parks and Recreation

# How Do We Get There?

- ▶ **Broadband Roll-out Plan**
  - Regions work with DAS-BEST to connect all municipalities to the network within two years
  - Outreach and education on benefits of the network to municipalities who are reluctant/unaware
- ▶ **Demonstrate Value**
  - Focus on programs that provide tangible benefit, enhance operations and build trust
  - Talk about our success and build on it

# The Nutmeg Network Information

- ▶ Nutmeg Network Connection Request form:
  - [www.nutmegnetwork.uconn.edu/request/](http://www.nutmegnetwork.uconn.edu/request/)
- ▶ General information about CEN
  - <http://cen.ct.gov/>
- ▶ General information regarding OPM and the grant program
  - <http://www.ct.gov/opm/cwp/view.asp?A=2985&Q=487924>



# Webinar: Nutmeg Network Connection and Grants

**December 16, 2013**

**9:30 – 11:30 a.m.**

**[www.fuzemeeting.com/fuze/app/2d383a29/22425907](http://www.fuzemeeting.com/fuze/app/2d383a29/22425907)**

**FREE and Open to ALL**

## **Topics Covered:**

- ▶ What is the Nutmeg Network?
- ▶ What is the Connection Process?
- ▶ What is the Grant deadline and Process?
- ▶ What is the Value of the Network and how can My Town benefit?
- ▶ Question and Answer session

# Thank you

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